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Application No.	Applicant(s)
10/645,862	HENDLER ET AL.
Examiner	Art Unit
Shih-Chao Chen	2821
	correspondence address pplication. If not included on will be mailed in due course. THIS to withdrawal from issue at the initiative
on March 31, 2005.	
Examiner.	
of this communication to file a reply ENT of this application.  Itted. Note the attached EXAMINER is reason(s) why the oath or declarate be submitted.  It is patent Drawing Review (PTO Amendment / Comment or in the comment of the drawing header according to 37 CFR 1.121	complying with the requirements  R'S AMENDMENT or NOTICE OF ration is deficient.  2-948) attached  Office action of lings in the front (not the back) of (d).
5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 3), 7. ⊠ Examiner's Amend	Patent Application (PTO-152) y (PTO-413), ate
	Shih-Chao Chen  ars on the cover sheet with the action of REMAINS) CLOSED in this agor other appropriate communication of the appropriate communication and MPEP 1308.  In March 31, 2005.  Examiner.  der 35 U.S.C. § 119(a)-(d) or (f).  been received.  been received in Application No uments have been received in this  of this communication to file a reply ENT of this application.  ted. Note the attached EXAMINER is reason(s) why the oath or declar is be submitted.  on's Patent Drawing Review (PTC)  Amendment / Comment or in the draw is header according to 37 CFR 1.121 it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL Submitted in the draw is header according to 37 CFR 1.121 it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL Submitted in the draw is header according to 37 CFR 1.121 it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL Submitted in the draw is header according to 37 CFR 1.121 it of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE PATERIAL FOR TH

## **DETAILED ACTION**

## **Drawings**

- 1. The application having been allowed, formal drawings are required in response to this office action.
- 2. The drawings were received on March 31, 2005. These drawings are accepted by the Examiner.

## Allowable Subject Matter

- 3. Claims 1-29 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-16 is the inclusion of the limitations of first ones of the plurality of conductive regions each having a conductive via connected to the ground plane; and the ground and the signal vias are electrically connected to the conductor segment. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claim 17 is the inclusion of the limitations of a conductive ground via connected between at least one of the plurality of conductive regions and extending downwardly to a bottom surface of the first dielectric layer for connection to the ground plane; and the ground and the signal vias are electrically connected to the conductor segment. It is these limitations found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

The primary reason for the allowance of claims 18=22 is the inclusion of the limitations of a conductive ground via connected between at least one of the plurality of conductive regions and the ground plane; and the ground and the signal vias are electrically connected to the conductor segment. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 23-26 is the inclusion of the limitations of a first and a second conductive ground via connected between the first and the third conductive regions and the ground plane, respectively; and the ground and the signal vias are electrically connected to the conductor segment. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claim allowable over the prior art.

The primary reason for the allowance of claim 27 is the inclusion of the limitation of at least one conductive ground via connected to the conductive plate and extending to the second surface. It is this limitation found in the claim, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

The primary reason for the allowance of claims 28-29 is the inclusion of the limitations of steps of forming at least one conductive ground via connected to a first one of the plurality of conductive regions and extending to the second surface; and the

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at least one ground via and the at least one signal via are further connected to the conductive segment. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shirli-blas chen Shih-Chao Chen Primary Examiner Art Unit 2821

SHIH-CHAO CHEN PRIMARY EXAMINER

SXC May 10, 2005